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## Naval Biodynamics Laboratory Box 29407 New Orleans, LA 70189-0407

28 January 1987

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## PUBLICATIONS LIST

FILE NO.	PUBLICATION OR PRESENTATION
3.1	Ewing, C. L., <u>Hardheaded Use of the Hardhat</u> . U.S. Navy Medical Newsletter, 1955, <u>26</u> , 37.
3.2	Ewing, C. L., <u>Helpful Hints from the Flight Surgeon</u> . Approach, Aug 1956, 38 pp.
3.3	Ewing, C. L., Physiological Significance of Breathing Pattern Changes as a Means of Detecting Hyposia: A Review. NADC-ACEE-407. Philadelphia, PA; Naval Air Development Center. Air Crew Equipment Laboratory, 1959.
3.4	Ewing, C. L., Air Break, Approach, May 1960, 30 pp.
3.5	Ewing, C. L., <u>Design Criteria and Parameters of Life Support Helmets</u> . In: <u>Effective Life Support Helmets</u> . Report 64-3. Biotechnology, Inc. Arlington, VA, 1963.
3.6	Ewing, C. L., <u>Defects of Current Navy Helmets</u> . In: Effective Life Support Helmets. Report 64-3. Biotechnology, Inc. Arlington, VA, 1963.
3.7	Ewing, C. L. Vertebral Fracture in Jet Aircraft Accidents: A Statistical Analysis for the Period 1959 through 1963, U.S. Navy. Aerospace Medicine, 1966, 37, 505-508.
3.7.1	Ewing, C. L. A Study of Aviation Medical Education in the U. S. Navy, 1964.
3.8	Ewing, C. L., A Short Review of Anthropometrics in Naval Aviation. U.S. Naval Medical Newsletter, 1966, 48, 17.
3.9	Ewing, C. L., Emergency Underwater Escape From Aircraft. U.S. Medical Newsletter, 1966, 48, 19.
3.10	Ewing, C. L., Thomas, D. J., Beeler, G. W., Jr, Patrick, L. M., Gillis, D. B., Dynamic Response of the Head and Neck of the Living Human to -Gx Impact Acceleration.  Proceedings, 12th Stapp Car Crash Conference. NY: Society of Automotive Engineers, 1968, 429-439, NAMI, 1064.
	ाजी

- Ewing, C. L., & Irving, A. M. Evaluation of Head Protection in Aircraft. Aerospace Medicine, 1969, 40, 596-599.
- 3.12 Ewing, C. L., Thomas, D. J., Beeler, G. W., Patrick, L. M., & Gillis, D. B. Dynamic Response of the Head and Neck of the Living Human to -Gx Impact Acceleration I Experimental Design and Preliminary Experimental Data. NAMI-1064/USAARL, Serial No. 69-67, Mar 1969.
- 3.12.1 Ewing, C. L., Thomas, D. J., Patrick, L. M., Beeler, G. W., Jr. & Smith, M. J. Living Human Dyanmic Response to -G<sub>X</sub> Impact Acceleration II. Accelerations Measured on the Head and Neck. Proceedings, 13th Stapp Car Crash Conference. NY: Society of Automotive Engineers, 1969, NAMRL-1122/USAARL Serial No. 71-11, Oct 1970, 400-415.
- 3.13 Ewing, C. L., Voluntary Human Tolerance Levels,
  Discussion of Article by Stapp, In: Impact Injury and
  Crash Protection. Charles C. Thomas, Springfield, IL,
  1970, 350 pp.
- Ewing, C. L., King, A. I., Prasad, P. & Vulcan, A. P., A
  Method for Increasing Threshold Level for Vertebral Fracture Due to +G, Impact Acceleration. In: Digest of Proceedings of 9th International Conference in Engineering on Medicine and Biology, Melbourne, Australia, Aug 1971, 154 pp.
- 3.15 Ewing, C. L., Nonfatal Ejection Vertebral Fracture U.S.
  Navy Fiscal Years 1959 through 1965: Costs. Aerospace
  Medicine, 1971, 42, 1226-1228.
- 3.16 Ewing, C. L., & Thomas, D. J. Human Dynamic Response to -G<sub>x</sub> Impact Acceleration. AGARD Conference Proceedings No. 88 on Linear Acceleration of Impact Type. AGARD-CP-88-71. London: Technical Editing and Reproduction Ltd, 1971, 11, 1-12.
- Thomas, D. J. & Ewing, C. L. <u>Theoretical Mechanics for Expressing Impact Acceleration Response of Human Beings.</u>
  In: AGARD Conference Proceedings No. 88 on Linear Acceleration of Impact Type. Aerospace Medical Panel. AGARD-CP-88-71. London: Technical Editing and Reproduction Ltd. 1971, <u>12</u>, 1-7.
- 3.18 Ewing, C. L., King, A. I., & Prasad, P. Structural Considerations of the Human Vertebral Column Under +Gz Impact Acceleration. Proceedings of the AIAA 9th Aerospace Sciences Meeting, New York, 1971.

- 3.18.1 Ewing, C. L., King, A. I., & Prasad, P. Structural Considerations of the Human Vertebral Column Inder +G<sub>7</sub> Impact Acceleration. Journal of Aircraft, 1972, 9, 84-90.
- 3.19 Ewing, C. L., & Thomas, D. J. Living Human Dynamic Response to -G<sub>X</sub> Impact Acceleration I. Displacements of Head and Neck. Presented at the 43rd Annual Meeting of the Aerospace Medical Association, Miami Beach, FL, 11 May 1972.
- 3.20 Ewing, C. L., & Thomas, D. J. Human Head and Neck Response to Impact Acceleration. NAMRL Monograph 21. Aug 1972, 377 pp.
- Prasad, P., King, A. I., & Ewing, C. L. The Role of the Articular Facets During +G, Acceleration. Proceedings of 25th Annual Conference on Engineering in Medicine and Biology. Miami Beach, FL, 4 Oct 1972, 241 pp.
- Becker, E. B. Measurement of Mass Distribution
  Parameters of Anatomical Segments. Proceedings 16th
  Stapp Car Crash Conference. Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA, 15096, 1973, 160-185. NAMRL-1193.
- 3.24 Ewing, C. L. Non-Fatal Ejection Vertebral Fracture and Its Prevention. Published AGARD Conference. Proceedings #110 on Current Status of Aerospace Medicine, 7 Rue Ancelle, 92200 Nuilly-Sur-Seine, France, Feb 1973, 8 pp.

Thomas, D. J. Specialized Anthropometric Requirements for Protective Equipment Evaluation. Published AGARD Conference Proceedings #110 on Current Status in Aerospace Medicine, 7 Rue Ancelle, 92200 Nuilly-Sur-Seine, France, Feb 1973, 8 pp.

- Becker, E. B. Preliminary Discussion of an Approach to Modeling Living Human Head and Neck Response to -G<sub>X</sub>
  Impact Acceleration. (W. F. King and H. J. Mertz, (Eds.)
  In: Human Impact Response. Plenum Publishing Co, NY., 1973, 321-329.
- 3.27 Ewing, C. L. A Method for Evaluation of Head or Helmet-Mounted Weapons Systems Comp. Unpublished Report, 1972.
- Walker, L. B., Harris, E. H., & Pontius, U. R. Mass Volume, Center of Mass and Mass Moment of Inertia of Head and Neck of the Human Body. Proceedings 17th Stapp Car Crash Conference, Society of Automotive Engineering, 400 Commonwealth Dr., Warrendale, PA 15096, 1973, 525-537.

- Ewing, C. L., & Thomas, D. J. <u>Torque Versus Angular Displacement Response of the Human Head to -Gy Impact Acceleration</u>. Proceedings 17th Stapp Car Crash Conference, Society of Automotive Engineers Transactions, 400 Commonwealth Dr. Warrendale, PA 15096, 1973, 304-342.
- Prasad, P, King, A. I., & Ewing, C. L. The Role of Articular Facets During +G, Acceleration. Proceedings American Society of Mechanical Engineers, Winter Annual Meeting, Detroit, MI, 13 pp, 11-15 Nov 73. Also published, Journal of Applied Mechanics, June 1974, 321-322.
- 3.31 Ewing, C. L. Head Clearance Envelope for Ejection Seat During -G<sub>X</sub> Impact Acceleration. AGARD Conference Proceedings No. 134. Escape Problems and Maneuvers in Combat Aircraft. Soesterberg, The Netherleands, 4 Sept 1973, Feb 1974, A3:1-3.
- Ewing, C. L., & Thomas, D. J., Bioengineering Aspects of Spinal Injury in OV-1 (Mohawk) Aircraft. Presented in Soesterburg, The Netherlands, 4 Sept 73. AGARD Conference Proceedings No 134. Escape Problems and Maneuvers in Combat Aircraft, pp A2:1-9, Feb 1974.
- 3.33 Ewing, C. L. Vertebral Fracture and Military Aviation. Presented at XXI International Congress of Aviat, Space Med., Munich, 22 Sept 1073.
- 3.34 Muzzy, W. H., Ewing, C. L., & Seal, P. W. <u>Industrial Electrodynamic Vibrator for Human Experimentation Feasibility Study</u>. Proceedings of Human Response to Vibration Conference. Salford, England, 19 Sept 1973, 6 pp.
- 3.35 Thomas, D. J., Majewski, P. L., Spence, C., & Ewing, C. L. The Medical Effects of an Attempted Simulation of Surface Effect Ship Motion. AGARD Conference, 29 Apr 3 May 1974.
- 3.36 Ewing, C. L., Muzzy, W. H., & Seal, P. W. Development of a High Fidelity Vibration Simulator for Human Experimentation on Surface Effect Ship Problems. AGARD Conference 29 Apr 3 May 74.
- 3.37 Walker, L. B., Determination of Some Physical Measurement of the Head and Neck of Human Cadavers, Final Contract Report, Tulane University, New Orleans, 1974.
- 3.38 Becker, E. B., A Photographic Data System for Determination of 3-Dimensional Effects of Multiaxis Impact Acceleration on Living Humans. Proceedings Society of Photo-Optical Instrumentation Engineers, Box 1146, Palos Verdes Estates, CA 90274, 1975, 57, 69-78.

- 3.39 Call, D., Palmer, W. F., & Ewing, C. L. <u>Human Head and Neck Response to Multiaxis Accelerations During Military Parachuting</u>. Aerospace Med. Assoc. Meeting, San Francisco, CA, 1 May 1975. Preprints.
- 3.40 Ewing, C. L. Non-Fatal Vertebral Fracture Due to Ejection, U.S. Navy, 1959-1970. Aerospace Med Assoc Meeting, San Francisco, CA, 1 May 1975.
- 3.41 King, A. I., Prasad, P, & Ewing, C. L. Mechanism of Spinal Injury due to Cauodocephalad Acceleration. Symposium on the Lumbar Spine, 19-21 Jun 74, Montreal, Canada. Orthopedic Clinics of North America, Jan 1975, 6, No 1, 19-31.
- 3.42 Smith, D. E., & Anderson, W. R. A Linear Model of the Human Head-Neck System for -G<sub>x</sub> Impact Acceleration.

  Aerospace Med. Assoc., 1 May 1975, 64-65, Preprint.
- 3.43 Muzzy, W. H., & Seal, P. W. Whole Body Vibration Restraint System. Proceedings United Kingdom Informal Group on Human Response to Vibration Conference, 18-19 Sep 1975, Southampton, England.
- 3.44 Ewing, C. L. <u>Injury Criteria and Human Tolerance for the Neck</u>. Aircraft Crashworthiness, Univ. of VA Press, Charlottesville, VA, 1975, 141-151.
- 3.45
  Becker, E. B., & Willems, G. C. An Experimentally Validated 3-D Inertial Tracking Package for Application in Biodynamics Research. Proceedings, 19th Stapp Car Crash Conference, Society of Automotive Engineering Transactions, 400 Commonwealth Drive, Warrendale, PA 15096, 1975, 899-930.

THE PROPERTY OF THE PROPERTY O

- Ewing, C. L., Thomas, D. J., Lustick, L. Becker, E. B., Willems, G. C., & Muzzy, W. H. The Effect of the Initial Position of the Head and Neck on the Dynamic Response of the Human Head and Neck to -Gx Impact Acceleration. Proceedings, 19th Stapp Car Crash Conference, Society of Automotive Engineering Transactions, 400 Commonwealth Drive, Warrendale, PA 15096, 1975, 487-512.
- Thomas, D. J., Robbins, D. H., Eppinger, R. H., King, A. I., & Hubbard, R. P. Guidelines for the Comparison of Human Analogue Biomechanical Data. A Report of an Ad Hoc Committee, Ann Arbor, MI. Dec 6, 1974, 17 pp.

3.47.1 Thomas, D. J., Robbins, D. H., Eppinger, R. H., King, A., Hubbard, R. P., & Reynolds, H. M. Guidelines for the Comparison of Human and Human Analogue Biomechanical Data. Second Annual Report of an Ad Hoc Committee. Workshop on Human Subjects, 19 Nov 1975, 17 pp.

- Unterharnschedit, F. J. <u>Injuries due to Boxing and Other Sports</u>. P. J. Vinken and G. W. Bruyn, (Eds.) in collaboration with R. Braakman. Published in Handbook of Clinical Neurology, North Holland Publishing Co., 1975, 23, Chapter 26, 527-593.
- Ewing, C. L. <u>Human Tolerance Limits for Parachutists</u>:

  An Examination of Existing Data. To be presented at the Aerospace Medical Association, Bal Harbor, FL, 10-13 May 1976. (Turned Down)
- Frisch, G. C., D'Aulerio, L. & O'Rourke, J. Mechanism of Head and Neck Response to G<sub>x</sub> Impact Acceleration. A Math Modeling Approach. 47th Aerospace Ned. Assoc. Meeting, Bal Harbor, FL, 10-13 May 1976, Aviat. Space Environ. Med., Nar 1977, 48:223-230.

- Ewing, C. L., Thomas, D. J., Lustick, L. S., Muzzy, W. H., Willems, G. C. & Majewski, P. L. The Effect of Duration, Rate of Unset and Peak Sled Acceleration on Dynamic Response of the Human Head and Neck. Proceedings, 20th Stapp Car Crash Conference, Society of Automotive Engineers Transactions, 400 Commonwealth Drive, Warrendale, PA 15096, 1970, 3-41.
- Muzzy, W H., & Lustick, L. S. <u>Comparison of Kinematic Parameters between Hybrid II Head and Neck System with Human Volunteers for -G<sub>X</sub> Acceleration Profiles. Proceedings 20th Stapp Car Crash Conference, Society of Automotive Engineers, Society of Automotive Engineers Transactions, 400 Commonwealth Drive, Warrendale, PA, 15096, 1976, 43-74.</u>

- Shugar, T. A. Transient Structural Response of the Linear Skull-Brain System. Proceedings, 19th Stapp Car Crash Conference, Society of Automotive Engineers Transactions, 400 Commonwealth Dr., warrendale, PA 15096, Nov 1975, 581-014.
- 3.54 Call, D. W., Palmer, J. F. & Ewing, C. L. Further
  Studies of Human Head and Neck Response to Multiaxis
  Accelerations During Military Parachuting. Annual Aerospace Med. Assoc. Meeting, Miami, FL, May 1976.
  Preprints.
- Ewing, C. L. & Unterharnscheidt, F. J. Neuropathology and Cause of Death in U. S. Naval Aircraft Accidents.

  Aerospace Med. Panel Specialists Meeting, AGARD/NATO, Copenhagen, Denmark 5-9 Apr 1976. AGARD Conference Proceedings #190, Recent Advances in Aviation Pathology, Dec 1976, B16:1-6.

- 3.50 Berger, M. D. Convariance and Correlation Studies of Raw Sensory Evoked Potentials. Society of Neuorscience, 6th Annual Meeting, Toronto, Canada, 7-11 Nov 1976.
- 3.57 Weiss, M. S. Modification of Kolmogorov-Smironov Statistic for use with Correlated Data. Journal of American Statistical Association, 73, No. 364, Dec 1978, 872-875.
- Jex, H. R., O'Hanlon, J. F., & Ewing, C. L. Simulated Rough Water Operations During Long Cruises in a 2000 Ton Surface Effect Ship, Phases 1 and 1A. Systems Technology. Inc., Hawthorne, CA 90250. Technical Report No. 1057-2. AD-B009519, Feb 1976.
- Thomas, D. J., Majewski, P. L., Guignard, J. C., & Ewing, C. L. Clinical Medical Effects on Volunteers Undergoing 48-hours Motion Simulations of the 2000 Ton Surface Effect Ship Model. Letter Report, 44 pp, 7 Apr 1976.
- Dahnke, J. W., Palmer, J. F. & Ewing, C. L. Results of Parachute Opening Forces Test Program. National Parachute Test Range, El Centro, CA 92243. Technical Report No. 2-70, Apr 1976, 44pp.
- Guignard, J. C. & McCauley, M. E. Motion Sickness Incidence Induced by Complex Periodic Waveforms. Final report to ONR, Dec 1976.
- Guignard, J. C. & McCauley, M. E. Motion Sickness Incidence Induced by Complex Periodic Waveforms.

  Proceedings of the 21st Annual Weeting of the Human Factors Society, 1977, 197-201.
- 3.61.2 Guignard, J. C & McCauley, M. E Motion Sickness Incidence Induced by Complex Periodic Waveforms. Aviation,
  Space and Environmental Medicine, 1982, 53, 554-563.
- Frisch, G. D., O'Rourke, J. & D'Aulerio, L. The Effectiveness of Mathematical Models as a Human Analog. SAE Paper 760774, included in SAE SP-412, Mathematical Modeling Biodynamic Response to Impact, Society of Automotive Engineers Transactions, 400 Commonwealth Drive, Warrendale, PA 15096, Oct 1976, 61-73.
- Guignard, J. C., Landrum G. J. & Reardon, R. E. Experimental Evaluation of Human Long-Term Vibration Exposures
  Permitted by the Current International Standard ISO 2631,
  1974. Preprints of the 77th Annual Scientific Meeting of the Aerospace Medical Association, Miami, FL, 10-13 May 1970, 252-253.

- Ewing, C. L., Thomas, D. J., Lustick, L. S., Willems, G. C., Muzzy, W. H., Becker, E. B. & Jessop, M. E., Jr. Dynamic Response of Human Primate Head and Neck to +Gy Response of Human Primate Head and Neck to +Gy Impact Acceleration. Final report on Interagency Agreement Number DOT-HS-4-00852 between the National Highway Traffic Safety Administration and the Naval Aerospace Medical Research Laboratory Detachment, 4 Nov 1976. Report No. DOT HS-803-058, available through NTIS, Jan 1978, 102 pp.
- Smith. U. E., & Anderson, W. R. Predictive Model of Dynamic Response of the Human Head/Neck System to -G<sub>x</sub> Impact Acceleration. Symposium on Biodynamic Models and their Application, 15-17 Feb 1977, Bergamo Center, Dayton, UH. Aviat, Space, Environ med, 49, No 1, Sec. II, Jan 1978, 224-233.
- Anderson, W. R., Boster, R. A & Willems, G. C. Empirical Model of Intracranial Pressure and Head Motion

  Resulting from a Vibrating Seated Rhesus. Symposium on Biodynamic Models and Their Applications, 15-17 Feb 1977. Aviat, Space, Environ Med, 49, No 1, Sec. 11, Jan 1978, 196-204.
- Frisch, G. D., & Cooper, C. W. <u>Mathematical Modeling of the Head and Neck Response to -G<sub>X</sub> Impact Acceleration;</u>

  (Minimum Articulation Requirements.) Symposium on Biodynamic Models and their Applications, 15-17 Feb 77. Aviat, Space, Environ. Med, <u>49</u>, No 1, Sec. II, Jan 1978, 196-204.
- Deutsch, S. A Fifteen-electrode Totally Implanted Time-Multiplex Telemetry Unit. Final report on ONR Contract NOU14-76-C-U241, Jan 77. Published in IEEE Transactions on Communications, 1976, 24, 1073-1078.
- Schneider, L. w. & Bowman, B. M. Prediction of Head/Neck Dynamic Response of Selected Military Subjects to -G<sub>X</sub>
  Acceleration. Aviat, Space, Environ. Med, 49, No 1, Sec. 11, Jan 1978, 211-223.
- Willems, G. C. A Detailed Performance Evaluation of Subminiature Piezoresistive Accelerometers.

  23rd International Instrumentation Symposium in Las Vegas, 1-5 May 1977. Proceedings of Instrumentation in the Aerospace Industry, 23, Instrument Society of America, 400 Stanwix St., Pittsburgh, PA 15222, 531-540.
- 3.71 Call, D. W., Moynihan, R. W. & Ewing, C. L. <u>Human</u>
  Response to Multiaxis Accelerations During Military
  Parachuting. 48th Aerospace Med. Assoc. Meeting, Las
  Veyas, NV, May 1977, Preprints.

- Ewing, C. L. Proposed Human Tolerance Limits for Parachute Opening Shock in Parachutists. Aerospace Med.

  Assoc. Meeting, Las Vegas, NV, 1977.
- Ewing, C. L. Motion Capacities of the Cervical Spine. Presented as a portion of the American Academy of Orthopedic Surgeons Courses on "The Neck", New Orleans, LA, 21-23 Apr 1977.
- Unterharnscheidt, F. J., Ewing, C. L., Thomas, D. J., Jessop, M. E., Jr., Rogers, W. & willems, G. U. Preliminary Report on the Neuropathological Findings in Rhesus Monkeys Undergoing Short Duration -Gx.

  Acceleration. World Federation of Neurological Surgery, Sao Paulo, Brazil, 19-20 Jun 1977. Abstract.
- Tennyson, S. A., Mital, N. K., & King, A I. <u>Electromyo-graphic Signals of the Spina musculature During +62</u>

  Impact Acceleration. Symposium on the Lumbar Spine-II
  Orthopedic Clinics of North America, 49, No 1, Sec 11, Jan 1978, 211-223.
- Ewing, C. L., Thomas, D. J., Lustick, L. S., Muzzy, w. H., Willems, G. C., & Majewski, P. L. The Dynamic Response of the Human Head and Neck to +Gy Impact Acceleration. Proceedings, 21st Stapp Car Crash Conference, Society of Automotive Engineers Transactions, 400 Commonwealth Drive, Warrendale, PA 15096, Oct 1977, 477-505.
- 3.77 Becker, E. B. Stereoragiographic Measurements for Anatomically Mounted Instruments. Proceedings, 21st Stapp Car Crash Conference, Society of Automotive Engineers Transactions, 400 Commonwealth Drive, warrendale, PA 1509b, Oct 1977, 477-505.

- Ewing, C. L., Thomas, D. J., Majewski, P. L., Black R., & Lustick, L. S. Measurement of Head T<sub>1</sub> and Pelvic Response to -G<sub>x</sub> Impact Acceleration. Proceedings 21st Stapp Car Crash Conference, Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15J96, Oct 1977 509-545. Also published in 86, SAE Transactions, 1978, 3205-3220.
- Thomas, D. J., Majewski, P. L., Ewing, C. L., & Giblert, N. S. Medical Qualifications Procedures for Hazardous-duty Aeromedical Research. AGARD, London, England. 24-28 Oct 1977. Proceedings No. 231, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, Sep 1978, A3:1-13.

- kernedy, R. S., & bittner, A. C., or. The beverupliert of a Navy Performance Evaluation Test for Environmental Research (PETER). Personnel Performance Measurance to Symposium, 12-14 oct 1977, San Diego, CA. E. T. Pope and D. Meister (Eds.) Productivity Enhancement Personnel Performance Assessment in Navy Systems. Navy Personnel Research & Development Center, San Diego, CA 92152. (NTIS No. Au A U56074).
- Shugar, 1. A. A Finite Element Head Injury Model.

  Vol 1, Navy Civil Engineering Laboratory Technical Report
  Ro54-1, July 1977. (NTIS No. AD AU43582).
- Snugar, T. A. A Finite Element Head Injury Model.
  Vol II, Navy Civil Engineering Laboratory Technical
  Report R854-II, July 1977. (NTIS No. AD AU43582).
- Majewski, P. L. Final Report on the medical Effect of Simulated 2000 Ton Surface Effect Ship Motions on Human Volunteer Subjects, Aug and Oct 74, 29 Jul 1975, (Letter report)
- Unternarnscheidt, F. J. & Ewing, C. L. <u>Potential Kelationship between Central Nervous System Injury and Impact Forces Based on Primate Studies</u>. AGARD Conference, Paris, Nov 1978. Proceedings, No 253, 7 Rue Ancelle, 92200 N Neuilly Sur Seine, France, May 1978, Alb:1-8.
- Majewski, P. L., Borgman, T. J., Thomas D. J., & Ewing, C. L. Transient Intraventricular Conduction Defects

  Observed During Experimental Impact in Human Subjects.

  AGARD Conference, Paris, Nov 1978. Proceedings, No. 253, 7 Rue Ancelle, 9220 Neuilly Sur Seine, France, May 1979, A-6:1-11.
- Ewing, C. L., Thomas, D. J., & Lustick, L. S. <u>Multiaxis</u>

  <u>Dynamic Response of the Human Head and Neck to Impact</u>

  <u>Acceleration</u>. AGARD Conference, Paris, Nov 1978. Proceedings, No. 253, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, May 1979, A-5:1-27.
- Weiss, M. S , & Berger, M. D. Impact Acceleration Related Changes in Brain Electrical Activity. 9th Neuroelectric Society Meeting, Marco Beach, FL, 25 Nov 1977. Abstract.
- 3.80.1 Weiss, M. S. & Berger, M. D. The Effect of Impact Acceleration on the Electrical Activity. AGARD Conference Proceedings No. 253, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, May 1979, A-20:1-9.

- Frisch, G. D., D'Aulerio, L., & Cooper, C. Modeling of Living Human Head and Neck Inertial Response to Impact Acceleration. 9th Neuroelectric Society Meeting, Marco Beach, FL, 25 Nov 1977. Abstract.
- Thomas D. J., Lustick, L. S., Jessop, M. E., Muzzy, W. H. & Ewing, C. L. Dynamic Response of the Primate Head and Neck to +Y Impact Acceleration. 9th Neuroelectric Society Meeting, Marco Beach, FL, 25 Nov 1977. Abstract.
- Kennedy. R. S., & Bittner, A. C., Jr. Progress in the Analysis of Performance Evaluation Tests for Environmental Research (PETER). Proceedings of the 22nd Annual Meeting of the Human Factors Society, Detroit, WI. 16-18 Oct 1978, 29-35. (NTIS No. AD AU60676).

- Ewing, C. L., & Thomas, D. J. Biomechanical Effects of Experimental Impact Acceleration on the Head and Neck of Volunteers. 9th Neuroelectric Society Meeting, Marco Beach, FL, 25 Nov 1977. Abstract.
- 3.91 Unterharnscheidt, F. J. Potential Relationship between human Central Nervous System Injury and Impact Forces Based on Primate Studies. 9th Neuroelectric Society Meeting, Marco Beach, FL, 25 Nov 1977. Abstract.

- 3.92 Anderson, W. R. & Call, D. W. <u>Human Response to</u>
  Parachute Opening Shock. Range Commander's Conference,
  El Centro, CA, 14-16 Mar 1978.
- 3.92.1 Call, D. W. & Moyninan, R. W. <u>Establishing Human</u>
  <u>Tolerance Limits to Parachute Opening Shock</u>. Presented
  at the 26th International Congress of Aerospace
  Medicine, London, England, Sept 1978.
- Ewing, C. L., Thomas, D. J., Lustick, L. S., Muzzy, W
  H., Willems, G. C., & Majewski, P. L. Effect of Initial
  Position on the Human Head and Neck Response to +Y Impact
  Acceleration. Proceedings, 22nd Stapp Car Crash Conference. Also Society of Automotive Engineers Transations,
  1979, 3/51-316. (SAE Paper No. 780888) Oct 1978, 101-138,
- Kennedy, R. S. <u>Bioelectric Indicants of Diver's Ability to Perform Useful work</u>. <u>Undersea Medical Society workshop</u>, <u>Bethesda</u>, <u>MD</u>, <u>Mar 1978</u>. C.E.G. Lundgren (Ed.). <u>Monitoring Vital Signs in the Diver</u>, 1978. (NTIS No. AU AU00675)
- Thomas, D. J., Majewski, P. L., Guignard, J. C. & Ewing, C. L. Clinical Medical Effects on Volunteers Undergoing 48-hour Simulations of the Modeled 2000 Ton SES Motion.

  Aerospace Med. Assoc. Meeting, New Orleans, LA, 8-11 May 1978. Preprints.

- Kennedy, R. S. & Bittner, A. C., Jr. The Stability of Complex Human Performance for Extended Periods: Applications for Studies of Environmental Stress. Aerospace Hed. Assoc. Meeting, New Orleans, LA, 8-11 May 1978. Preprints.
- Frisch, G. D. A Human body and Crew Station Modelling System for Motion Studies. AGARD Conference, Paris, Nov 1978. Proceeding No. 253, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, May 1979, PA21:1-13.
- 3.90 Muzzy, W. H., & Willems, G. C. <u>Human Response to Vibration and Shock</u>. Proceedings 49th Vibration Symposium, Washington, DC 17-19 Uct 1978.
- 3.99 Sances, Jr., A., Larson, S. J., Cusick J. F., Myklebust, J., Ewing, L. L., Jodat, R., Ackmann, J., & Walsh, P. Early Somatosensory Evoked Potentials. Electroencephalography and Clinical Neurophysiology, 1978, 45:505-514.
- 3.100 Kennedy, R. S., Bittner, A. C., Jr., & Harbeson, M. M.

  Research Developments in a Performance Evaluation Test
  for Environmental Research (PETER). Undersea Medical

  Society Meetin, 30 May 2 June 1979. (Abstract, Undersea Biomedical Research, Supplement to 6 (1), 1979, 441.
- 3.101 Kennedy, R S. & Bittner, A. C., Jr. Progress in the Development of a Performance Evaluation Test for Environmental Research (PETER). First Informal UNR Contractor's Conference, Stanford University, 18-20 Jan 1978.
- Harbeson, M. M., Krause, M., Kennedy, R. S. & Bittner, A. C., Jr. The Stroop as a Performance Evaluation Test for Environmental Research. 87th Annual Meeting of the American Psychological Assoc. N.Y., 1979, Journal of Psychology, 1982, 111, 223-233.
- 3.103 Kennedy, R. S., Bittner, A. C. & Harbeson, M. M. The Performance Evaluation Tests for Environmental Research (PETER): Paradigm. 30th Annual Meeting of the Psychonomic Society, Phoenix, AZ, 8-10 Nov 1979.
- 3.104 Wiker, S. F., Kennedy, R. S., McCauley, M. E. & Pepper, R. L. Reliability, Validity and Application of an Improved Scale for Assessment of Motion Sickness Severity. Aerospace Med. Assoc. Meeting, wash, UC, 14-17 May 1979. Preprints, US Coast Guard Report No. CG-D-29-79, (NTIS No. AD A069130).
- Wiker, S. F., Kennedy, R. S., McCauley, M. E., & Pepper, R. L. Susceptibility to Seasickness Influence of Hull Design and Steaming Direction. Aviat, Space, Environ Med, 50:1046-1051, 1979.

- 3.104.2 Bittner, A. C., Jr. Toward A Computerized Accommodated Percentage Evaluation (9CAE) Model for Automotive Vehicle Interiors. Society of Automotive Engineers Transactions, 1979, 87, 1285-1294.
- 3.104.3 Bittner, A. C., Jr., & Ayoub, M. M. Equipment Handling Modeling, (Abstract) Proceedings of the 23rd Annual Meeting of the Human Factors Society, Boston, MA, 29 Oct 1 Nov 1979.
- 3.105 Kennedy, R. S., Bittner, A. C., Jr., & Jones, M. B.

  Development of Performance Evaluation Tests for Environmental Research (PETER). Air Combat Maneuvering Test.

  Presented at the Rocky Mountain Psychological Association Meeting, Los Vegas, 16-19 Apr 1979.
- Jones, M. B , Kennedy, R. S. & Bittner, A. C., Jr. A Video Game for Performance Testing. American Journal of Psychology 1981, 94, 143-152.
- Shannon, R. H. Determination of Efficient Methods of Lift by Comparing Trained and Untrained Male and Female Lifters. Doctoral dissertation. Dec 1979. NBDL Monograph NBDL-M004, Oct 1980. (NTIS No. AD A100349).
- Frisch, G. D., D'Aulerio, L., & Schultz, M. Crew Station Assessment Using the Bioman Modeling System. AGARD Conference, Lisbon, 22-20 Oct 1979. Proceedings No. 267, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, mar 1980, 24:1-16.

Thomas, D. J., Ewing, C. L., Majewski, P. L. & Gilbert, N. S. Clinical Medical Effects of Head and Neck Response During Biodynamic Stress Experiments. AGARD Conference, Lisbon, 22-26 Oct 1979. Proceedings No. 267, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, Mar 1900, 15:1-15.

PARTY SERVICE BURNING BEFORE PRODUCE BUNNEY RESSERVE BURNING

- Guignard, J. C., Ewing, C. L., Willems, G. C., Anderson, W. R., Muzzy, W. H., Thomas, D. J., & Majewski, P. L. A. Method for Studying Human Biodynamic Response to Whole Body Z Axis Vibration. AGARD Conference, Lisbon, 22-26 Oct 1979. Proceedings No. 267, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, Mar 1980, 9:1-7.
- Tyburski, J J, Frisch, G. D., & D'Aulerio, L A. Low Level Adverse Attitude Escape Using a Vertical Seeking Ejection Seat. AGARD Conference, Lisbon, 22-26 Oct 1979. Proceedings No. 267, 7 Rue Ancelle, 92200 Neuilly Sur Seine, France, Mar 1980, 28:1-10.

- 3.111 Walsh, P. R., Larson, S. J., Sances, A., Ewing, C. L., Thomas, D. J., Weiss, N., Berger, N., Myklebust J., & Cusick, J. F. Experimental Methods for Evaluating Spinal Lord Injury During Impact Acceleration. V. V. FM. M. Wageneder and R. H. Germann, (Eds.) In Electrotherapeutic Sleep and Electroanesthesia. Universitat Graz Austalia, 1978, 435-443.
- Guignard, J. C., Willems, G. C., & Anderson, W. R. Experimental Methods for the Standardized Measurement of the Human Dynamic Response to Whole-body Vibration and Some Results Obtained. Preprints of the 50th Annual Scientific Meeting of the Aerospace Medical Association, Washington, DC, 14-17 May 1979, 129-130.
- McCauley, M. E., Kennedy, R. S., & Bittner, A. C. Jr.

  Development of a Performance Evaluation Test for Environmental Research (PETER): Time Estimation Test.

  Perceptual and Motor Skills, 1980, 51 o55-665. Naval Biodynamics Research Report, NBDL-8UROU7, Dec 1980, (NTIS No. AD A113948).
- McCauley, M. E., Kennedy, R. S., & Bittner, A. C. Jr
  Development of a Performance Evaluation Test for Environmental Research (PETER): Time Estimation Test.
  Proceedings of the 23rd Annual Meeting of the Human
  Factors Society, Boston, MA, 29 Oct 1979, 513-517.
- 3.114 Damos, D. L., Kennedy, R. S., Bittner, A. C., Jr., & Harbeson, M. Performance Evalution Test for Environmental Research (PETER): Critical Tracking Test. Preprints of the 50th Annual Scientific Meeting of the Aerospace Medical Association, Washington DC May 1979, 33-34.
- Jamos, D. L., Bittner, A. C., Jr., Kennedy, R. S., Harbeson, M. M. & Krause, M. Performance Evalution Tests for Environmental Research (PETER). Critical Tracking Test. Perceptual and Motor Skills, 1984, 58, 567-573.
- Seales, U. M., Kennedy, R. S. & Bittner, A. C. <u>Performance Evaluation Test for Environmental Research (PETER):</u>
  Arithmetic Computation. Perceptual and Motor Skills,
  1980, 51, 1023-1031.
- 3.115.1 Seales, D. M., Kennedy, R. S. & Bittner, A. C. Performance Evaluation Test for Environmental Research (PETER):

  Arithmetic Computation. Proceedings of the 23rd Annual Meeting of Human Factors Society, Boston, MA, 29 Oct 1979 508-512.

- 3.116

  Harbeson, M. M., Kennedy, R. S., & Bittner, A. C. A

  Comparison of the Stroop Test to Other Tasks for Studies
  of Environmental Stress. Proceedings of the 12th Annual
  Meeting of the Human Factors Association of Canada,
  Bracebridge, Untario, Canada, 6-8 Sep 1979, 21:1-9.
- Damos, D. L., Kennedy, R. S., Bittner, A. C., Jr., & Harbeson, M. M. Effects of Extended Practice on Dual-Task Tracking Performance. Presented at 87th Annual Meeting of the American Psychological Association, New York 1979. Human Factors, 1981, 23 627-631.
- 3.118 Bittner, A. C., Jr. Statistical Tests for Differential Stability. Proceedings of the 23rd Annual Meeting of the Human Factors Society, Boston, MA, 29 Oct 1979, 541-545.
- Frisch, G. U., & U'Aulerio, L. A. Bioman: An Improved Occupational-Crew Station Compliance Modeling System.

  Aviatiation, Space, and Environmental Medicine, 1980, 51, 160-167.
- Krause, M. and Kennedy, R. S. <u>Development of Performance Evaluation Tests for Environmental Research (PETER):</u>

  Interference Susceptibility Test. Proceedings of the 7th Psychology in the DOD Symposium, USAF Academy, Colorado Springs CO, 16-18 April 1980, 459-464.
- 3.121 Bittner, A C , Kennedy, R S., & McCauley, M. E. <u>Time Estimation</u>: Repeated Measures Testing and Drug Effects.

  Proceedings of the 7th Psychology in the DUD Symposium, USAF Academy, Colorado Springs, CO 16-18 April 1980, 445-450.
- Jones, M. B , Stabilization and Task Definition in A Performance Test Battery. Final Report on Contract NUU203-79-M-5089 with the NAMRL Detachment, New Orleans, LA 12 May 1979, also published as NBDL Monograph NBDL-MOU1, Oct 1980, (NTIS No AD A099987).
- Kennedy R. S., Jones, M. B., & Harbeson, M. M. Assessing Productivity and Well-being in Navy Workplaces.

  Proceedings 13th Annual Meeting of the Human Factors
  Association of Canada, Point Ideal, Untario, Canada, 4-6
  Sept 1980, 108-113.
- 3.124 Becker, E. B. <u>Cutting Pipe Intersections</u>. Machine Design, 10 Apr 1980, 133-134
- 3.125 Wickens, C. D., Mountford, S. J., & Schreiner, W. Task Dependent and Individual Differences in Dual Task Performance. Final report under contract NOU203-78-M-337.

  Also published as NBDL MONOGRAPH NBDL-MOU3, Oct 1980.
  (NTIS No AD A099986).

- bixon, D. J., Copeland, M. G. & Halcomb, C. G. Psychomoter Battery Approaches to Performance Prediction and Evaluation in Hyberbaric, Thermal and Vibratory Environments. Final report on contract NUO203-78-M-5020. NBDL Monograph NBDL-MOU2, Oct 1980. (NTIS No. AD A09981).
- Kennedy, R. S. Evidence for a Reference Theory of Motion Perception. NATU Symposium on the Study of Motion Perception, Netherlands, 24-29 Aug 1980.

ZZJE ZZZZZZJE MODOZOJE KAKKAJEDOWANE MOSOZA

- Jones, M. B., & Kennedy, R. S. <u>Video Games: A New Behavioral Technology</u> In: TTCP Point Papers.

  Cambridge, England, Aug 1980. Office of the Under Secretary of Defense Research and Engineering (Research and Advanced Technology), Wash, DC: Department of Defense.
- 3.127.2 Kennedy, R. S., Bittner, A. C., Jr., & Jones, M. B. The Effects of Extended Practice on Commercial Video Games.

  Presented at the 72nd Annual Meeting of the Southern Society for Philosophy and Psychology, Birmingham, AL, 3-5 April 1980.
- 3.127.3 Harbeson, M. M., Kennedy, R. S., & Bittner, A. C., Jr.

  Application of Memory Tests for Assessment of the Effects
  of Exotic Environments on Humans. Presented at the 72nd
  Annual Meeting of the Southern Society for Philosophy and
  Psychology, Birmingham AL, 3-5 April 1980.
- Damos, D. L. Individual Differences in Multiple-Task
  Performance. Presented at the 7th Psychology in the DOD
  Symposium, USAF Academy, Colorado Springs, CO, 16-18
  April 1980.
- Jones, M. B., Kennedy, R. S., & Bittner, A. C., Jr. <u>Video Games and Convergence or Divergence with Practice</u>. <u>Proceedings of the 7th Psychology in the DUD Symposium</u>, USAF Academy, Colorado Springs, CO, 16-18 April 1980, 465-469.
- Shannon, R H. The Utility of Task Analytic Techniques to Research in Unusual Environments. Preprints of the 51st Annual Scientific Meeting of the Aerospace Medical Association, 12-15 May 1980, 165-166.
- 3.131 Kennedy, R. S., Bittner, A. C & Jones, M. B. The utility of Commercially Available Television-Computer Games for Assessing Performance and Other Applications. Preprints of the 51st Annual Scientific Meeting of the Aerospace Medical Association, 12-15 May 1980, 163-164.

- 3.131.1 Kennedy, R. S., Bittner, A. C., Jr., Harbeson, M. M. & Jones, M. B. Television Computer Games: A New Look in Performance Testing. Aviation, Space, and Environmental Medicine, 1982, 53, 49-53.
- 3.132 Carter R. C. Physiological and Performance Measurements: A Time-Series Model. Preprints of the 51st Annual Scientific Meeting of the Aerospace Medical Association, May 1980, 161-162.
- 3.133 Lustick, L. S. & Williamson, G. H. Errors in Derived Kinematic Variables. Proceedings of the Instrumentation Society of America, 1980. Also published in ISA Transactions, 1982, 20, 35-47.
- 3.134 Carter, R. C. <u>Visual Search with Color</u>. A Thesis in Psychology. Nov 1979. Published as NBUL Monograph NBUL-NOUS, Oct 1980. (NTIS No AU Alou351).
- 3.134.1 Carter, R. C. <u>Visual Search with Color</u>. Journal of Experimental Psychology: Human Perception and Performance, 1982, 8, 127-136.
- 3.135 Beier, G. Schuck. M., Schuller, E., & Spann W <u>Determination of Physical Data of the Head I Center of Gravity and Moments of Inertial of Human Heads</u>. Published as UNR Report on Contract N-000-14-75-C-0486, 1 Apr 1979, 35.
- Sances, A., Weber, R., Myklebust, Cusick, J., Larson, S., Walsh, P., Christoffel, I., Houterman, C., Ewing C. L., Thomas D. J. & Saltzberg, B. The Evoked Potential: An Experiment Method for Biomechanical Analysis of Brain and Spinal Injury. Proceedings of the 24th Stapp Car Crash Conference, Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096, pp 63-100, Oct 15-17 1980. Also published in SAE Transactions, 1980.
- 3.137 Carter, R. C. Visual Search and Color Coging. Proceedings of the 23rd Annual Meeting of the Human Factors Society, Boston, MA, 29 Oct 1979.
- Guignard, J. C. Evaluation of Exposure to Vibrations In: L. V. Cralley & L. J. Cralley, (Eds.) Patty's Industrial Hygiene and Toxicology, Vol. III. New York. Wiley, 1979, 465-524.
- Thomas, D. J., Guignard, J. C., & Willems G. C.
  Correlates of Heave Induced Motion Sickness. M. S.
  Report to ONR, 3 July 1980.
- 3.140 Becker E. B. Head and Neck Kinematics for Frontal Oblique and Lateral Crash Impact. NBUL Research Report, No. NBUL-8UROU9, Aug 1980. (NTIS NO. A131956)

- Shannon, R. H. Performance Evaluation Tests for Environmental Research (PETER) Using Task Analysis. 28th International Congress of Aviatiation, Space, and Environmental Medicine, Montreal, Canada, 8-11 Sep 1980.
- 3.141.1 Bittner, A C, ur., Kennedy, R. S., Harbeson, M. M. & Lundy, N. C. Appartatus Testing for Aviation Performance Assessment and Selection: A Technology Ready to Lome of Age. 28th International Congress of Aviation Space and Environmental Medicine, Montreal, Canada, 8-11 Sep 1980.
- 3.141.2 Kennedy, R. S., & Harbeson, M. M. Jones' Two-Process
  Model of Skill Acquisition: Applications for the Study
  of Environmental Stress. Presented at the 88th Annual
  Convention of the American Psychological Association,
  Montreal, Lanada, 15 Sep 1980.
- Ewing, C. L., Lustick, L. S. & Thomas, D. J. Lomparison or Head Dynamic Response For (-X, Y), +x and +Y Sled Acceleration Profiles. (Unpublished manuscript)
- Shannon, K. H. Manual Materials Handling Injuries of Naval Civilian Workers. Proceedings of Human Factors and Industrial Design in Consumer Products, Symposium, Medforu, MA, May 1980.
- Bittner, A. C., Jr., & Chatfield, D. L. A Signal Detection Theory Function for Kelating Sensitivity (d') to Standard and Comparison Magnitudes. Proceedings of the Human-Machine Systems Symposium IEEE International Conference on Cybernetics and Society, Boston, MA, Oct 1980, 978-984.
- Guignard, J. C., Majewski, P. L., & Muzzy, W. H.

  Determining Thresholds of Human Response to Vibration
  Using Acceleration Sweeps at Constant Velocity.

  International Conference on Ergonomics and Transport,
  Swansea, Wales, 8-12 Sep 1980. D. J. Oborne and J. A.
  Lewis, (Eds.). Human Factors in Transport Research
  V. II, London: Academic Press, Nov 1980, 149-157.
- 3.140 Pepper, R. L., Kennedy, R. S., Bittner A. C., Jr., & Wiker, S. F. Performance Evaluation Tests for Environmental Research (PETER): Code Substitution Test. Proceedings, 7th Psychology in the DOD Symposium, USAF Academy, Colorado Springs, CO. 16-18 Apr. 1980, 451-457.
- Fepper, R. L., Kennedy, R. S., bittner A. C., Jr., Wiker, S. F., & Harbeson, M. M. Performance Evaluation Tests for Environmental Research (PETER): Code Substitution Test. Perceptual and Motor Skills 1985, 61, 735-745.

- Shannon, R. H. <u>Factor Analytic Approach to Biomechanical Modeling</u>. Proceedings of the NATO Symposium on Anthropometry and Biomechanics, Campriage, England, Jul 1980.
- Guignard, J. C., Bittner, A. C., Einbender, S. W., & Kennedy, R. S. Performance Evaluation Tests for Environmental keesearch (PETER) Landolt C. Reading Test Proceedings, Human Factors Society Los Angeles, CA, 13-17, Oct 1980, 355-339.
- Shannon, R. H. A Factor Analytic Approach to Determining Stability of Human Performance. Proceedings Human Factors of Canada, Point Ideal, Untario, Canada, Sept 1980.
- Harbeson, M. M., Krause, M., & Kennedy, R. S. Comparison of Memory Tests for Environmental Research. Proceedings, Human Factors Society, Los Angeles, CA, 13-17 Oct 1900, 349-353.
- Carter, R. C. Search Time with a Color CRT: Analysis of Distribution Functions. Human Factors, 1982, 24, 203-212.
- 3.152 Willems G. C. Some Useful Filter Forms. NBDL Research Report, NBDL-80R005. Jun 1980. (NTIS No Ab A100452).
- Frisch, G. D., D'Aulerio, L. A. & Schultz, M. Simulation of Emergency Egress from Aircraft Crew Stations. Joint NbDL-NADC Report, NAUC-80059-60, NBDL80R001, Mar 1960.
- Kennedy, R. S. Bittner, A. C. & Harbeson, M. M. An Engineering Approach to the Standardization of Performance Evaluation Tests for Environmental Research (PETER). Proceedings, 11th Annual Conference of the Environmental Design and Research Association (ERDA), Charleston, SC, 2-6 mar 1980.
- 3.155 Carter, R. C., Kennedy R. S., Bittner, A. C. Jr. & Krause, M. <u>Item Recognition as a Performance Evaluation Test for Environmental Research</u>. Proceedings, 24th Annual Meeting of the Human Factors Society Los Angeles, CA, 13-17 Oct 1980, 340-344.
- Shannon, R. H. The Validity of Task Analytic Information to Human Performance Research in Unusual Environments.

  Proceedings, 24th Annual Meeting of the Human Factors Society, Los Angeles, CA, 13-17 Oct 1980, 325-334.
- Jones, M. B. Convergence-Divergence with Extended Practice: Three Applications. Proceedings of the 24th Annual Meeting of the Human Factors Society, Los Angeles, CA, 13-17 Oct 1980, 359-362.

- Shannon, R. H. Performance Evaluation Tests for Environmental Research (PETER): The Various Stages of Human Performance Battery Development. Interactive session.

  24th Annual Meeting of the Human Factors Society, Los Angeles CA 13-17 Oct 1980.
- McCafferty, D. B , Bittner, A. C., & Carter, R. C. Performance Evaluation Tests for Environmental Research (PETER): Augitory Digit Span Task. Proceedings, 24th Annual Meeting of the Human Factors Society, Los Angeles, CA, 13-17 Oct 1980, 330-334.
- 3.100 Kennedy, R. S., Carter, R. C. & Bittner, A. C., Jr. A
  Catalogue of Performance Evaluation Tests for Environmental Research. Proceedings, Human Factors Society, Los
  Angeles, 13-17 Oct 1980, 334-348.

- 3.101 Carter, R. C., Kennedy, R. S. & Bittner, A. C., Jr. Selection of Performance Evaluation Tests for Environmental Research. Proceedings, Human Factors Society, Los Angeles, 13-17 Oct 1980, 320-324.
- Grammatical Reasoning: A Stable Performance Yardstick.

  Human Factors, 1981, 23, 587-591.
- 3.163 Shannon, R. H. Task Analytic Approach to Human Performance Battery Development. Proceedings, 24th Annual Meeting of the Human Factors Society, Los Angeles, CA 13-17 Oct 1980, 354-358.
- 3.163.1 Kennedy, R. S., Bittner, A. C., Jr., & Jones, M. B.

  Exploratory Studies of Tracking Tasks. 21st Annual Meeting of the Psychonomic Society, St. Louis, MO, 13-15 Nov 1960. Published as Video-Game and Conventional Tracking. Perceptual and Motor Skills, 1981, 53, 310.
- Carter, E. C., Carter, R. C. <u>Color and Conspicuousness</u>.

  Journal of the Optical Society of America, 1981, 71,
  732-729 (June)
- 3.163.3 Seales, D. M., Rossiter, V. S., & Weinstein, M. E.
  Braintstem Auditory Evoked Responses in Patients Comatose
  as a Result of Blunt Head Trauma. The Journal of Trauma,
  1979, 19, 347-353.
- Seales, D. M., Torkelson, R. D., Shuman, R. M., Rossiter, V. S. & Spencer, J. D. Abnormal Brainsten Auditory

  Evoked Potentials and Neuropathology in "Locked-in" Syndrume. Reprinted from Neurology, July 1981, 31, No. 7, 893-896.

- 3.104 Kennedy, R. S., Andrews, D. A. & Carter, k. C. <u>Performance Evaluation Tests for Environmental Research</u>

  (PETER): A microcomputer Game as a hemory Test. Preprints of Aerospace Med Assoc Meeting, 4-7 May 1901.
- 3.165
  Bittner, A. C., Jr. The Misunderstood, Maligned and Underestimated Dichotomous Criterion. To be presented at Aerospace Med Assoc, 4-7 May 1981, Abstract. (Unpublished manuscript)
- Irons, R. C., & Shannon, R. H., Krause, M. & Patsfall, M. Automated Psychological Testing and Generic workstation Development Utilizing General Purpose Microcomputers.

  New Orleans Meeting on Research Methods in Human Motion and Vibration Studies", Sep 1981, Abstract.

- Shannon, R. H., & Carter, R. C. A Comparison of Tactical Naval Work Stations Within the Air and Sea Environments.

  Aerospace Med Assoc, 4-7 May 1981.
- 3.108 Wiker, S. F., Kennedy, R. S., & Pepper, R. S. <u>Pertormance Evaluation Tests for Environmental Research (PETER): Navigational Plotting Task.</u> Preprints of Aerospace Med Assoc Meeting, 4-7 May 1981. Also, Aviation, Space, and Environmental Medicine, 1983, 54, 144-149.

的复数形式 医化化化性质 医克克克克利 黑色的的名词 网络大大大大大 非常是的的名词 医人名英格兰 医人名英格兰 医多种的

- 3.169 Lustick L. S., Williamson, G. H., Seemann, M. R. & Bartholonew. J. Problems of Measurement in Human Analog Research. In: Human Subjects for Blomechanic Research, A hirsch, (Ed.) Troy, MI, Uct 1980, NBOL Research Report, NBDL-82RO12, May 1982.
- Damos, L. D. & Smist, T. E. <u>Individual Differences in Dual-Task Performance</u>. Monograph NBDL-MOU6, Nov 1980, (NTIS No ADU99977).
- Mackaman, S. M., Bittner, A. C., Jr., Harbeson, N. N., Kennedy, R. S. & Stone, D. A. Performance Evaluation Tests for Environmental Research (PETER): Wonderlic Personnel Inventory. Southern Society for Philosophy and Psychology, Louisville, KY, 16-18 Apr 81. Psychological Reports, 1982, 51, 635-644.
- Bittner, A. C., Jr , & Carter, R. C. Repeated measures of Human Performance: A Bag of Research Tools.

  "Research Methods in Human hotion and Vibration Studies", New Orleans, LA, Sep 1981, NBDL Research Report, NBDL-81ROU1, (NTIS No. AD All3954).
- Shannon, R. H., Carter, R. C. & Boudreau. A. Y. A Systematic Approach to Battery Development and Testing Within Unusual Environments. New Orleans Meeting on "Research Methods in Human Motion and Vibration Studies", New Orleans, LA Sep 1981.

- 3.174 Muzzy. W. H., Prell, A. M. & Shimp, P. B. <u>Camera and Site Calibration for 3-D Target Acquisition</u>. <u>Proceedings of 25th Annual SPIE International Symposium and Instrument Display</u>. San Diego, CA, 24-28 Aug 81.
- Lustick L. S. & Williamson, G. H. Editing of Cinepnotographic Data. Proceedings, 25th Annual Society of Photographic Instrumentation Engineers (SPIE) International Symposium and Instrument Display, San Dieyo, CA, 24-28 Aug 81.
- 3.176 Seemann, M. R. & Lustick, L. S. Combination of Accelerometer and Photographic Derived Kinematic Variables

  Defining Three Dimensional Rigid Body Motion. Proceedings, 25th Annual SPIE International Symposium and Instrument Display, San Diego, CA, 24-28 Aug 81.
- Lustick, L. S. & Seemann, M. R. <u>Determination of Sensitivity to Error Sources and Target Configuration on kinematic Variables Derived from Cinephotography</u>. Proceedings, 25th Annual SPIE International Symposium and Instrument Display San Diego, CA, 24-28 Aug 81.
- 3.178 Willems G. C. & Becker, E. B. An Algorithm for imminizing the Effect of Low Frequency Errors in Kinematic Variables Derived from Cinephotography. Proceedings, 25th Annual SPIE International Symposium and Instrument Display San Diego, CA, 24-28 Aug 81
- Anderson, w. R. & Martin, R. Design of a Digital Filter to Eliminate High Frequency Noise from Noncontiguous Film Coordinate Data. Proceedings, 25th Annual SPIE International Symposium and Instrument Display, San Diego, CA, 24-28 Aug 81
- Willems, G. C., Muzzy, W. H., Anderson, W. R. & Becker, E. B. <u>Cinematography Data Systems at the Naval Biodynamics Laboratory</u>. Proceedings, 25th Annual SPIE International Symposium and Instrument Display, San Diego, CA, 24-28 Aug 81
- Bittner, A. C., Jr. Use of Proportion-of-Base-Line Measures in Stress Research. Proceedings, International Conference on Machine Pacing and Occupational Stress, Purdue University 17-18 Mar 1981. Also published in G Salvendy & M. J. Smitn (Eds.). Machine Pacing and Occupational Stress. London: Taylor and Francis, 1981, 177-183.

- Frisch G. D. Simulation of Occupant-Crew Station Interaction During Impact. In: C. L. Ewing, D. J. Thomas, A. Sances & J. Larson, (Eds.), Impact Injury to the Head and Spine, Springfield, IL, Charles C. Thomas, 1983, pp. 485-535. Also NBDL-NADC Joint Report, NBDL-81R005/NADC
- 3.182.1 Frisch, G. D. Matnematical Simulation of Adverse Attitude and High Speed Escape From Stricken Aircraft. Sciences and Engineering Symposium, Dayton Ohio, Oct 1981, 7, 217-229.
- Sances, A., Jr., Myklebust, J., Lusick J. F., Weber, R., Houtenhan, C., Larson, S., Walsh, P., Chilbert, M., Prieto, T., Saltzberg, B., Zyvolski, M., Thomas, D. J., & Ewing, C. L. Experimental Studies of Brain and Neck Injury. 25th Stapp Car Crash Conference, San Francisco, CA, 28-30 Sep 1981.
- Muzzy, W H., & Prell, A. M. Taryets for 3-D Tracking of Human Impact Test Subjects. Proceedings of 25th Annual SPIE International Symposium and Instrument Display, San Diego, CA, 24-28 Aug 1981.
- Thomas, D. J., Guignara, J. C. & Willems, G. C. Correlates of Heave Induced Motion Sickness. Abstract. Joint Meeting of the Operations Research Society of America and the Institute of Management Sciences, Houston, TX, 12-14 Oct 1981.
- Ewing, C. L. Overview of Naval Impact Acceleration Research and Development: Past, present and Future. Abstract. To be presented at AGARD Conference, 26-29 Apr. 1982, Cologne, Germany, (withdrawn).
- Majewski P. L. & Borgman, T. J., Jr., Electrocardiographic Observations During Experimental Impact in Human Subjects. Abstract. To be presented at AGARD Conference, Cologne, German, 26-29 Apr 82, (withdrawn).
- Saltzberg, B., Burton, W. D., Burch, N. R., Ewing, C. L., Thomas, D. J., Weiss, M. S., Berger, M. D., Sances, A., Jr., Walsn, P. K., Myklebust, J., Larson, S. J. & Jessop, M. E. Jr. Evoked Potential Studies of Central Nervous System Injury Due to Impact Acceleration. Proceedings, AGARD Conference, Cologne, Germany 26-29 Apr 1982, 16:1-11.

- Saltzberg, B., Burton, W. D., Jr., Weiss, M. S., Berger, M. D., Ewing, C. L., Thomas, D. J., Jessop, M. E., Jr., Sances, A., Jr., Larson, S. J., Walsh, P. R., & Myklebust, J. B. <u>Dynamic Tracking on Evoked Potential Changes in Studies of Central Nervous System Injury Due to Impact Acceleration</u>. In: C. L. Ewing, D. J. Thomas, A. Sances & J. Larson, (Eds.), Impact Injury to the Head and Spine, Springfield, IL, Charles C. Thomas, 1983, Ch. 10, 310-323.
- Weiss, M S. & Berger, M. D. <u>Neurophysiological Effects of -X Impact Acceleration</u>. AGARD Conference, Cologne, Germany 26-29 Apr 1982. Proceedings No. 322, Impact Injury Caused by Linear Acceleration, Mechanisms, Prevention and Cost, 14:1-7.
- Frisch, G. D. & D'Aulerio, L. <u>Instrumentation Requirements and Assessing Occupant Response to Three Dimensional High Acceleration Environments</u>. AGARD Conference, Cologne, Germany, 26-29 Apr 1982, 15:1-9.
- 3.192 Sekuler R., Tynan, P. D., & Kennedy, R. S. Source Book of Temporal Factors Affecting Information Transfer from Visual Display, Joint Report, PMTN, NBDL, ARI, NBDL-81RU07, June 1981.
- Walsh, P. R. & Jessop, M. E., Jr. The Evoked Potential in Sled Impact Acceleration: Methodologic and Neurosurgical Considerations. In: C. L. Ewing, J. J. Thomas, A. Sances, Jr., S. J. Larson, (Eds.), Impact Injury of the Head and Spine. Springfield, IL: Charles C. Thomas. 1983, 231-285.
- 3.194 Frisch, G. D. Simulation of Emergency Egress from AV-8A and AV-8B Crew Stations. NADC/NBDL Joint Report, NADC 81184-6U/NBDL-8UROUZ Report, Jan 1981
- 3.195 Sances, A , Jr., Myklebust, J. B., Houtenlan, C. Weber, R., Lepkowski, J., Cusick, J. F., Larson, S. J., Ewing, C. L., Thomas, D. J., Weiss, N. S., Berger, M. D., Jessop, M. E., Jr. & Saltzberg, B. Head and Spine Injuries. Presented AGARD Medical Panel Specialist's Meeting, Cologne, Germany, 26-29 Apr 82, 13:1-34.
- Frisch, G. D Occupant Ejection Response Analysis of Front v.s. Rear Crew Station in TF-18 Aircraft. Joint Report NBDL/NADC, NBDL-81R0U4/NADC.
- Guignard, J. C., Bittner, A. C., Jr. & Carter, R. C.

  Methodological Investigation of Vibration Effects on Performance of Three Tasks. Proceedings of 25th Annual

  Meeting of Human Factors Society. Rochester, N.Y., 12-16
  Oct 1981, 342-346. Journal of Low Frequency Noise and
  Vibration, 1982, 1, 12-18.

- Guignard, J. C. Human Exposure to Vibration: Current Topics and Research Methods. Abstract. Presented Acoustical Society of America, Miani Beach, FL 30 Nov 4 Dec 1981.
- Kennedy R. S., Bittner, A. C., Jr., Carter, R. C., Krause, M., Harbeson, M. M., McCafferty, D. B., Pepper, R. L. & Wiker, S. F. Performance Evaluation Tests for Environmental Researh (PETER): Collected Papers. NBDL Research Report, NBDL-8UROU8, July 1981, (NTIS NO. AD A111296).
- Muzzy, W. H. Ship Motion Generator Upgrade Study. NBDL Research Report No. NBDL-83R012, Sept 1983. (NTIS No. AD A138368)
- Thomas, D. J. The Use of Volunteers in biodynamic Experiments. NBDL workshop, New Orleans, LA, 16 Sept 1981.
- Shannon, R. H. & Carter, R. C. <u>Task Analysis and the Ability Requirements of Tasks: Collected Papers. NBUL Research Report No. NBUL-81RUU9, Sept 1981, (NTIS No. AD All1181).</u>
- Bittner, A C., Jr., Jones, M. B., Carter, R. C., Shannon, R. H., Chatfield, D. C. & Kennedy. R. S. Statistical Issues in Performance Testing: Collected Papers. NBDL Research Report No. NBDL-81R010, Sept 1981. (NTIS No. AD All1086).
- Weber, R. Myklebust, J., Houterman, C., Sances, A., Cusick, J., Larson, S., Prieto, T., Chilbert, M., Ewing, C. L. & Thomas, D. J. Experimental and Theoretical Models of Cervical Injury. Abstract. 5th Annual Conference of American Society of Biomechanics, Cleveland, OH, 19-20 Oct 1981. Also presented American Society of Mechanical Engineering Annual Meeting, Wash, DC, 15-20 Nov 1981.
- 3.205 Berger, M. D. Analysis of Sensory Evoked Potential Using Normalized Cross-Correlation Functions. Medical and Biological Engineering and Computing, 1983, 21, 149-157.
- 3 205.1 Berger, M D. Analysis of Sensory Evoked Potentials
  Using Normalized Cross-Correlation Functions and Polyexponential Regression. NBDL Research Report No. NBUL82R015, July 1982. (NTIS No. AD A121726)
- Berger, M. D., & Weiss, M. S. Effects of Impact Acceleration on Somatosensory Evoked Potentials. NBUL Research Report No. NBDL-83R002, April 1983. (NTIS No. AD A130380)

- 3.206.1 Beryer, M. D., & Weiss, M. S. <u>Effects of Impact Acceleration on Somatosensory Evoked Potentials</u>. In: C. L. Ewing, D. J. Thomas, A. Sances & J. Larson, (Eds.), Impact Injury of the Head and Spine, Springfield, IL: Charles C. Thomas Publisher, 1903, 324-378.
- Bittner, A. C , Jr. Artificially Induced Individual Differences with Percentage of Baseline Measures.
  Unpublished Manuscript.
- Bittner, A. C., Jr., Lundy, N. C., Kennedy, R. S. & Harbeson, N. M. Performance Evaluation Tests for Environmental Research (PETER): Spoke Tasks. Perceptual and Motor Skills, 1982, 54, 1319-1331.
- Thomas, D. J. & Jessop N. E., Jr. Experimental Head and Neck Injury. In: C. L. Ewing, D. J. Thomas, A. Sances & S. J. Larson (Eds.) Impact Injury of the Head and Spine, Springfield, IL: Charles C. Thomas Publisher, 1983, 177-217.
- uignard, J. C. Current Developments in Human Vibration Research. Invited talk, 52nd Shock and Vibration Symposium, New Orleans, LA, 29 Oct 1981.
- Ewing, C. L. Preface to Impact Injury of the Head and Spine. Springfield, IL: Charles C. Thomas Publisher, 1903.
- Ewing, C. L. Biodynamics Problems Presently Being Faced by the Navy: Progress Over the Past Two Years Invited address to National Research Council, Assembly of Behavioral and Social Scientists, Bioacoustics and Biomechanics (CHABA). Washington, DC, 13-14 Nov 1981.
- Bittner, A. C., Jr. <u>Averaged Correlations Between</u>
  Parallel Measures: <u>Reliability Estimation</u>. <u>Proceedings</u>
  of the 8th Psychology in the DOD Symposium, USAF Academy,
  Colorado Springs Apr 1982.
- 3.214 Bittner, A C , Jr., Carter, R. C. & Krause, M. <u>Performance Tests for Repeated Measures: Moran and Computer Batteries</u>. NBDL Research Report No. NBDL-81RU12, Nov 1981. (NTIS No. AD Al15008)
- 3.214.1 Bittner, A. C., Jr , Carter, R. C , Krause, M., Kennedy, R. S. & Harbeson, M. M. Performance Tests for Repeated Measures: Moran and Computer Batteries. Proceedings of the 26th Annual Meeting of the Human Factors Society, Seattle, WA, 25-26 Uct 1982, 747-751. Also, Aviation, Space, and Environmental Medicine, 1983, 54, 923-928.

- 3.215 Kennedy R S., Bittner, A. C., Jr., Harbeson, M. M. & Jones M. B. Perspectives in Performance Evaluation Tests for Environmental Research: Collected Papers. NBUL Research Report No. NBDL-80RU04, Nov 1981. (NTIS No. AD All1180).
- Patsfall, M Implications of Dual-Task Performance Variables for Design of Generic Workstations: Literature Review. NBUL Research Report No. NBUL-81R014, Nov 1981 (NTIS No. AD A114421).
- Bittner, A. C., Jr., Guignard, J. C., Woldstad, J. C. & Carter, R. C. <u>Vibration Effects on Digit Symbol Coding.</u>
  Proceedings, <u>Lighth Psychology in DUD Symposium</u>, <u>USAF</u>
  Academy, <u>Lolorado Springs</u>, CO, 21-24 Apr 1982. Also, <u>Journal of Low Frequency Noise and Vibration</u>, 1983, <u>2</u>, 169-175.
- Weiss, M. S., Berger, M. D. <u>Neurophysiological Effects of -X Impact Acceleration</u>. Joint Committee on Aviation Pathology, 13th Biennial Scientific Session, Toronto, Canada, 22-25 Oct 1982. Also, Aviation, Space, and Environmental Medicine, 1983, <u>54</u>, 1023-1027.
- Thomas, U. J. & Jessop, M. E., Jr. Experimental Impact Acceleration Injuries of the Head-Neck Junction in Rhesus. Joint Committee on Aviation Pathology 13th Biennial Scientific Session, loronto, Lanada, 22-25 Uct 1982.
- Ewing, L. L. The Use of Mechanisms of Injury in Evaluation of Crash Protective Systems and Ejection Seats.

  Joint Committee on Aviation Pathology, 13th Biennial Scientific Session, Toronto, Canada, 22-25 Oct 1982.
- Sances, A. Jr., Myklebust, J., Cusick J. F., Weber, R., Houtenman, C., Larson, S. J., Walsh, P., Chilbert, M., Prieto, T., Ewing, C. L. & Thomas, D. J. Head and Neck Injury Studies. Review of Air Force Sponsored Basic Research in Environmental Physiology and Biomechanics, San Antonio, TX, Mar 1902.
- Bittner, A. C., Jr., Carter, R. C. & Tabler, R. E. Time Series Analysis of Microcomputer Video Games. Society for Philosophy and Psychology. Fort Worth, TX, 8-10 Apr 1982. (not accepted)
- Bittner, A. C., Jr. Human Factors: A Profession for the Year 2000. Colloquium presented at Loyola University, New Orleans, LA, Jan 1982.
- Shannon, R. H. Biomechanical Analysis of Manual Material Handling Techniques. NBDL Research Report No. NBDL-82ROU1, Feb 1982, (NTIS No. AD Al13955).

- Carter, R. C & Krause, M. Reliability of Slope Scores for Individuals. Research Report, No. NBDL-83R003, April 1983. (NTIS No. AD Al30252).
- Carter, R. C., Krause, M. & Harbeson, M. N. Beware of the Reliability of Slope Scores for Individuals. Human Factors, in press.
- 3.226 Unterharnscheidt, F. J. Neuropathology of Rhesus Monkeys
  Subjected to -G<sub>X</sub> Impact Acceleration. In: C. L. Ewing,
  D. J. Thomas, A. Sances & J. Larson, (Eds.), Impact
  Injury of the Head and Spine, Springfield, IL: Charles
  C. Thomas Publisher, 1983, 94-176.
- 3.226.1 Unterharnscheidt, F. J. <u>Neuropathology of Rhesus Monkeys</u>
  <u>Subjected to -Gx Impact Acceleration</u>. ONR Report on Contract NOU014-78-C-0800, 1981.
- Carter, R. C , Patsfall, M. & Shannon, R. H. A Job Analysis of the Aegis Combat Submodes. NBUL Research Report No. NBUL-82ROU2. Jan 1982. (NTIS No. AD A:15030)
- Carter, R. C. & Sbisa, H. E. <u>Human Performance Tests for Repeated Measurements</u>; Alternate Forms of Eight Tests by Computer. NBDL Research Report No. NBDL-82RUU3, Jan 1982, (NTIS No. AD Al15021).
- Shannon, R. H., Krause, M. & Irons, R. C. Attributes of a Simulated Flight Scenario Microcomputer Test. NBDL Research Report No NBDL-82R004, Jan 1982. (NTIS No. AD All5676) Also published in proceedings of the 26th Annual Meeting of the Human Factors Society, Seattle, WA, 25-29 Oct 1982, 959-963.
- Shannon, R. H. Development of Alternate Forms: A
  Generic Test Battery. NBDL Research Report No NBDL82R0U5, 1982. (not published)
- Unterharnscheidt, F. J. <u>Neuropathology of the Rhesus</u>

  Monkey Undergoing -G<sub>X</sub> Impact Acceleration. AGARD Conference, Proceedings No.322, Apr 1982, 17:1-33.
- Berger, M. D. & Weiss. Averaged Somatosensory Evoked Potentials from Rhesus Undergoing Biodynamic Stress.

  Second International Evoked Potentials Symposium, Cleveland, OH, 18-20 Mar 1982.
- 3.233 Krause, M. Repeated Measures on a Choice Reaction Time Task. Proceedings, 26th Annual Meeting of the Human Factors Society. Seattle, WA, 25-29 Oct 1982, 359-363.

- 3.233.1 Krause, M. & Bittner, A. C., Jr Repeated Measures on a Choice Reaction Time Task. NBDL Research Report No. NBDL-82RU00, Aug 1982. (NTIS NO. AD A121904).
- Bittner, A. C., Jr., Dunlap. W. P. & Jones, M. B.

  Averaged Correlations with Differentially-Stable
  Variables: Fewer Subjects Required for Repeated

  Measures. Proceedings, 26th Annual Meeting of the Human
  Factors Society, Seattle, WA, 25-29 Oct 1982, 349-353.
- Seales, D. M., Bittner, A. C., Jr., Weiss, M.S & Morrill, S. N. "Short-Latency" Somatosensory Evoked Potentials During Experimentally Induced Biodynamic Stress in Humans. Presented at the Second International Evoked Potential Symposium, Clevelana, OH, 18-20 Oct 1982. Also, Research Report No. NBDL-85RUU2, December 1985. (NTIS No. AD A164947)
- 3.236 Unused.

- Harbeson, M. M., Kennedy, R. S., Krause, M. & Bittner, A. C., Jr. Repeated Measures of Information Processing. Proceedings, 26th Annual Meeting of the Human Factor Society, Seattle, WA, 25-29 Oct 1982, 818-822.
- Woldstad, J. C., Bittner, A. C., Jr. & Guignard, J. C.

  A Methodological Investigation of Subject Input/Output
  Related Error During Vibration. Proceedings, Zoth Annual
  Meeting of the Human Factors Society Seattle, WA, 25-29
  Oct 1982, 533-537.

- Shannon, R. H. <u>Translation of Functional Tasks of a Navy</u>
  Workstation to <u>Structured Job Analysis</u>. <u>Research Report</u>,
  NBDL-82ROU7, Mar 1982. (NTIS No. AD Al19b20).
- Carter, R. C. & Carter, E. L. High Contrast Sets of Colors. Applied Optics. 1982, 21, 2936-2939.
- Carter, R. C. & Biersner, R. J. U.S Navy Enlisted Jobs.

  An Analysis. Research Report, NBUL-82R010, Sept 1982.

  (NTIS No. AD A122410).
- Carter, R. C., Stone, D. A. & Bittner, A. C., Jr., Repeated Measurements of Manual Dexterity: Applications and Support of the Two-Process Theory. Ergonomics, 1982, 25, 829-838.
- 3.243 Willems, G. C., Muzzy, W. H. & Lustick, L. S. <u>Cinematographic Data Systems at the Naval Biodynamics Laboratory:</u>
  Collected Papers. Research Report No. NBDL-82RU11, May 1982. (not published)

- 3.244 Carter, R. C. & Bittner, A. C., Jr. <u>Jackknife for Variance Analysis of Multifactor Experiments</u>. Research Report No. NBDL-82R013, May 1982. (NTIS No. AD A121760).
- 3.245 Carter, R. C. A Design Tool for Color Display. Proceedings, 26th Annual Meeting of the Human Factors Society, Seattle, WA, 25-29 Oct 1982, 589.
- Guignard, J. C., Bittner, A. C., Jr. & Harbeson, M. M.
  Current Research at the Naval Biodynamics Laboratory on
  Human Whole Body Motion and Vibration. Proceedings, U.K.
  Informal Group on Human Response to Vibration, London,
  England, 16-17 Sep 1982. Research Report No. NBDL83R008, July 1983. (NTIS No. AD Al38367)
- 3.247 Saltzberg, B., Burton, W. D., Jr., Burch, N. R., Ewing, C. L., Thomas, D. J., Weiss, M. S., Berger, M. D., Sances, A., Jr., Walsh, P. R., Myklebust, J., Larson, S. J., & Jessop, M. E., Jr. Studies of the Effects of Impact Acceleration on Evoked Potential Transmission in the Nervous System. 13th Biennial Scientific Session of the Joint Committee on Aviation Pathology, Toronto, Canada, 22-25 October 1982.
- 3.248 Lepokowski, J., Sances, A., Jr., Myklebust, J., Weber, R., Sanford, L., Ewing, C. L. & Thomas, D. J. A Model for Analysis of Injury with Protective Headgear. Third International Conference on Mechanics in Medicine and Biology, Compiegne, France, 10-13 July 1982.
- 3.249 Sances, A., Jr., Myklebust, J., Kostreva, D., Cusick, J. F., Weber, R., Houterman, C., Larson, S. J., Maiman, D., Walsh, P., Chilbert, M., Unterharnscheidt, F., Ewing, C. L., Thomas, D. J., Seigesmund, K., Ho, K., & Saltzberq, B. Pathophysiology of Cervical Injuries. 26th Stapp Car Crash Conference, University of Michigan, Ann Arbor, MI, 20-22 Oct 1982.
- 3.250 Guignard, J. C., Bittner, A. C., Jr. & Harbeson, M. M. Whole-Body Vibration Effects on Human Performance:

  Mechanical or Mental. Presented at the International Conference on Noice Control Engineering (Inter-Noise), Edinburg, Scotland, 13-15 June 1983.
- 3.251 Muzzy, W. H. Programs and Problems of Biodynamic Research at the Naval Biodynamics Laboratory. Presentation, 18th Annual Meeting of the Government Agency Aircraft Seating Conference, Hampton, VA, June 1982.
- 3.252 <u>Initial Command History</u>, 1982.

- Thomas, D. J., Guignard, J. C. & willems, G. C. The Problem of Detining Criteria for Protection of Crewmen from Low-Frequency Ship Motion Effects. 24th Defense Research Group Seminar, (DRG), Toronto, Lanada, 2-4 May 1983, 9-1-9-50.
- Lundy, N. C, & Bittner, A. C., Jr. <u>Developmental</u>
  Investigation of Display-Control Population Stereotypes
  in Adolescents. Presented at the 29th Annual Convention
  of the Southwestern Psychological Association, San
  Antonio, TX, April, 1983.
- 3.255 Weiss, M. S., Saltzberg, B., & Burton, w D. Jr

  Experimental Neurophysiological Criteria for Impact

  Injury. Presented at the Fall Technical Meeting of the
  Tri-Service Aeromedical Research Panel (TARP), Dayton OH,
  November 1983.
- Guignard, J. C., Bittner, A. C., Jr., & Harbeson, M. M. Mechanisms of Whole-Body Vibration Effects on Human Performance. Proceedings of the 27th Annual Meeting of the Human Factors Society, Norfolk, VA. Oct 1983, 1, 472. (Abstract)
- Carter, R. C. <u>Time Series Models of Human Factors</u>
  Dynamics. Human Factors, 1984, 26, 83-95.
- Bittner, A. C., Jr., Shortal, J. P., III, & Harbeson, M. Effects of Head Impact Acceleration on Human Perfondance: Overview and Preliminary Battery Identification.

  Research Report No. NBUL-83R004, May 1983. (NTIS No AU A130286).
- Harbeson, M. M., Bittner, A. C., Jr., Kennedy, R. S., Carter, R. C. & Krause, M. Performance Evaluation Tests for Environmental Research (PETER): Bibliography.

  Perceptual and Motor Skills, 1983, 57, 283-293.
- Berger, M. D. A High-Performance Analog-to-Digital Subsystem Suitable for the Study of Evoked Potentials, with Design Considerations for the Eclipse \$140 Computer. Research Report NBDL-83RUU1, Feb 1983. (NT15 No. AD A130353).
- Lustick, L. S., & Thomas, D. J. Method of Description of Head Rotational Motion and Derivation of Subject Related Parameters. Presented at the Symposium on Mechanisms of Head and Spine Trauma, Marco Beach, FL, 15-20 Nov 1983.

- Ginsbury, A P., Bittner, A. C., Jr, Kennedy R S. & Harbeson, M. M. A Methodological Investigation of Three Psychophysical Techniques for the Rapid Measurement of Contrast Sensitivity. Proceedings of the Z7th Annual Neeting of the Human Factors Society, Norfolk VA, 10-14 Oct 1983, 1, 264-268.
- Smith, in. G. Krause, M., Bittner, A. C., Jr., Kennedy, R. S. & Harbeson, M. M. Performance Testing with Microprocessors: Mechanization Is Not Implementation. Proceedings of the 27th Annual Meeting of the Human Factors Society, Norfolk, VA, 10-14 Oct 1983, 2, 674-678.
- 3 264 Unterharnscheidt, F. J. Boxing Injuries. In R. C. Schneider, J. C. Kennedy M. Plant & W. Flemming, (Eas), Sports Injuries: Mechanisms, Prevention and Treatment. Baltimore, ND: Williams & Wilkins, in press.

Colors and America September 1888

3.205 Carter, R. C., & Woldstad, J. C. Repeated Measurements of Spatial Ability with the Manikin Test: Change and Stability of Skill Across Time and Tasks. Human Factors, 1985, 27, 209-219.

- 3.206 Carter, R. C., Curley, M., & Styer, D. Repeated Measurements of Diver's Word Fluency. Manuscript submitted for publication.
- 3.207 Unterharnscheidt, F. J. <u>Traumatische Hirnshaden</u>, spezielle Nosologie.
- 3.208 Krause, M., & Woldstad, J. L. Massed Practice: Does 1t Change the Statistical Properties of Performance Tests?

  NBDL Research Report No. NBDL-83R005, June 1983. (NTIS No. AD A139338)
- Carter, R. C, & Carter, E. C <u>CIE L\*u\*v\* Equations for Self-Luminous Displays</u>. Color Research and Applications, 1983, 8, 252-253.
- Ewing, C. L., Thomas, D. J., Sances, A. Jr., & Larson S. J., (Eds.) Impact Injury of the Head and Spine, Springfield, IL: Thomas, 1983.
- Damos, D. L., Smist, T. E., & Bittner, A. C., Jr.
  Individual Differences in Multiple-Task Performance as a
  Function of Response Strategy. Human Factors, 1983, 25,
  215-226.
- 3.272 Sances, A., Jr., Maiman, U. J., Mylkebust, J. B., Larson, S. J., Cusick J. F., Chilbert, M., Jodat, R., Ewing, C. L., & Thomas, D. J. Lompression Studies in the Human Thoracolumbar Spine. Presented at the 7th Annual Meeting of the American Society of Biomechanics, Rochester, MN, Sept 28-30, 1983.

- 3.273 Unterharnscheidt, F. J., <u>Traumatic Alterations in the Rhesus Monkey Undergoing -Gx Impact Acceleration</u>.

  Proceedings of the 6th Meeting of the Japanese Society of Neurotraumatology. Tokyo, 14 Feb 1983.
- 3.274 Unterharnscheidt, F. J. <u>-Gx Impact Acceleration of Rhesus Monkeys and its Importance for Aircraft Accident Investigations: I. Experimental Equipment and Results. Submitted for publication.</u>
- 3.275 Unterharnscheidt, F. J. <u>-G<sub>X</sub> Impact Acceleration of Rhesus Monkeys and Its Importance for Aircraft Accident Investigations</u>: 2. Comparison of the Present Study and Previous Work. Submitted for publication.
- 3.276 Carter, R. C., & Biersner, R. J. The Position Analysis
  Questionaire Applied to U.S. Navy Enlisted Jobs. Journal
  of Occupational Psychology, in press.
- 3.277 Dunlap, W. P., Jones, M. B., & Rittner, A. C. Jr.,
  Averaged Correlations vs Correlated Averages. Rulletin
  of the Psychonomic Society, 1983, 21, 213-216.
- 3.278 Kennedy, R. S., Frank, L. H., McCauley, M. E., Bittner, A. C., Jr., Root, R. W., & Binks, T. A. Simulator Sickness: A Reaction to a Transformed Perceptual World: VI. Preliminary Site Survey. Conference Proceedings No. 372, Aerospace Medical Panel Symposium, Williamsburg, VA, 30 Apr 4 May 1984, Section 34, 1-11.
- 3.278.1 Frank, L. H., Kennedy, R. S., Kellog, R. S., Bittner, A. C., Jr., McCauley, M. E., & Root, R. W. Simulator
  Sickness: Sensorimotor Disturbances in Flight
  Simulators. Proceedings of the 1984 IMAGE Conference
  III, Phoenix, AZ, 30 May 1 June, 1984, 417-426.
- 3.279 Command History for 1982.

- 3.280 Guignard, J. C., Bittner, A. C., Jr., & Harbeson, M. M.

  Ship Motion Research: All at Sea? Presented to the U.K.

  Informal Group on Human Response to Whole-Body Vibration,
  Silsoe, Beds., England, Sept 1983.
- 3.281 Willems, G. C. A Detailed Review of the Endevco Model 7302 Angular Accelerometer. Research Report No. NBDL-83R009, Aug 1983. (NTIS No. AD A134882)
- 3.282 Sances, A. Jr., Myklebust, J. B., Maiman, D. J., Larson, S. J., Cusick, J. F. & Jodat, R. W. The Biomechanics of Spinal Injuries. CRC Critical Review of Bioengineering, 1984, 11, 1-76.

- 3.283 Weiss, M S., Impact Injury Causes and Prevention A Brief Review of Research Methods and Results. Seminar presented at the University of New Orleans, LA, 21 Sept 1983.
- Myklebust, J., Sances, A., Jr., Mainan, D., Pintar, F, Chilbert, M., Rauschning, W., Larson, S., Cusick J. Ewing, C. L., & Thomas, D. J. Experimental Spinal Trauma Studies in the Human and Monkey Cadaver. Proceedings of the 27th Annual Stapp Car Crash Conference, San Diego, CA. Oct 1983.
- Anderson, W. R., Willems, G. C., & Guignard, J. C.
  Analysis of Head Motion During Simulated Rough Water
  Operation of a 2200-Ton Surface Effect Ship. AGARD
  Conference Proceedings No. 372, Aerospace Medical Panel
  Symposium, Williamsburg, VA, 30 Apr 4 May 1984, Section
  38, 1-14.
- Thomas, D. J. & Jessop, M. E., Jr Experimental Head and Neck Injuries in the Rhesus Monkey from +X Impact Acceleration. Presented at the Symposium on Mechanisms of Head and Spine Trauma, Marco Beach, FL, 15-20 Nov 1983.
- Weiss, M. S., Saltzberg, b., & Burton, W. D. Jr. Experimental Neurophysiological Criteria for Impact Injury.

  Presented at the Symposium on Mechanisms of Head and Spine Trauma, Marco Beach, FL, 15-20 Nov 1983.
- Bittner, A. C., Jr., Carter, R. C., Harbeson, M. N., Krause, M., Kennedy R. S., & Smith, M. G. <u>Development of a Portable Assessment System</u>. Unpublished manuscript, 1983.
- Ewing, C. L., Physiological Aspects of Helmet Testing and Evaluation. Presented at the Symposium on Mechanisms of Head and Spine Trauma, Marco Beach, FL, 15-20 Nov 1983.
- Thomley K. E., Kennedy, R. S., & Bittner, A. G., Jr
  Development of Postural Equilibrium Tests for Examining
  Simulator Aftereffects. Proceedings of the 55th Annual
  Scientific Meeting of the Aerospace Medical Association,
  San Diego, CA, 6-10 May 1984. Also, Perceptual and Motor
  Skills, 1986, 63, 555-564.
- 3.291 Seemann, M. R. Error in CALSPAN® 3-Dimensional Crash Vehicle Simulation Computer Program for the Case of Massless Segments. Research Report No. NBDL-83R013, Dec 1983. (NTIS No. AD A141783)

- Lambert, J. J. A Method of Photo Data Reduction, with Design Considerations for the Nova 8008 and Univac 1100/838 Computers. Research Report No. NBDL-84R001, Jan 1984. (NTIS No. AD A144537)
- 3.293 Kilgore, P.D., & Gottbrath, J. H. Photodigitizing Procedures. Research Report No. NBUL-84R0U2, Feb 1984.

  (NTIS No. AD A143589)
- 3.294 Bittner, A. C., Jr., Carter, R. C., Kennedy, R. S., Harbeson, M. M., & Krause, M. Performance Evaluation Tests for Environmental Research (PETER): Good, bad, and Ugly. Proceedings of the 28th Annual Meeting of the Human Factors Society San Antonio, TX, 21-26 Oct 1984, 11-15.
- 3.295 Bartmess, P. A., Guignard, J. C., Bittner, A. C., Jr., & Harbeson, M. M. NBUL Motion and Vibration Literature
  Automated Bibliographic System. Unpublished manuscript.
- Weiss, M. S. Kolmogorov-Smirnov Goodness-of-Fit Test:
  Corrected for use with 'ELG-Like" Data. Research Report
  No. NBDL-84R003, Apr 1984. (NTIS No. AD A144711)
- 3.297 Bittner, A. C., Jr., & Moroney W. F. Estimation of Comprehensive Anthropometric Data from Limited Information. Proceedings of the 28th Annual Meeting Of the Human Factors Society, San Antonio, TX, 21-26 Oct 1984, 176-178.
- Guignard, J. C., & Bittner, A. C., Jr. Human Response to Whole-Body Vibration. Presented at the International Conference Occupational Ergonomics, Toronto, Canada, 7-9 May 1984.
- 3.299 Muzzy, W. H., Lustick L. S., Anderson, W. R., & Willems, G. C. Human vs Manikin Head and Neck Response to +GZ Acceleration. Proceedings of the 37th Annual Conference on Engineering in Medicine and Biology, Los Angeles, CA, 17-19 September 1984.
- 3 300 <u>Command History: Calendar Year 1983.</u>
- 3.301 Seemann, M. R., Lustick, L. S, & Frisch, G. Mechanisms of Control of Head and Neck Dynamic Response.

  Proceedings of the 28th Annual Stapp Car Crash Conference, Chicago, IL, November 1984, 207-222.
- Bittner, A. C., Jr., & Guignard, J. C. Engineering Principles for Minimization of Adverse Ship Motion Effects: Theory and Practice. Presented at the ASNE (American Society Naval Engineers) Day 85 Meeting, Washington, UC, 2-3 May 1985. Also, The Naval Engineers Journal, 1985, 97 (4), 205-213.

- 3.302.1 Bittner, A C., Jr., & Guignard, J. C. Engineering Principles for Minimization of Adverse Ship Motion Effects: Theory and Practice: Comments and Reply by the Authors. The Naval Engineers Journal, 1985, 97 (5), 107-111.
- Bittner, A. C., Jr., Smith, M. G., Kennedy, R. S., Staley C. F., & Harbeson, M. M. <u>Automated Portable Test</u> (APT) System: Overview and Prospects. Presented at the 14th Annual Meeting of the Society for Computers in in Psychology, San Antonio, TX, 7 November 1984. Behavior Research Methods, Instruments, & Computers, 1985, 17, 217-221.
- 3.304 Guignard, J. C. & Thomas, D. J. Toward Standard
  Biodynamic Coordinate Systems. Research Report No.
  NBDL-84RU05, in preparation.
- Bittner, A. C., Jr., Carter, R. C., Kennedy, R. S., Harbeson, M. M., & Krause, M. Performance Evaluation Tests for Environmental Research (PETER): Evaluation of 112 Tasks. Research Report No. NBDL-84R006, September 1984. (NTIS No. AD A152317)
- Bittner, A C., Jr., Carter, R C., Kennedy, R. S., Harbeson, M. M., & Krause, M. Performance Evaluation Tests for Environmental Research (PETER): Evaluation of 114 Measures. Perceptual and Motor Skills, 1986, 03, 683-708.
- Tabler. R. E. Nicolet Med-80<sup>®</sup> Programs in the Naval Biodynamics Laboratory Evoked Potential Series. Research Report No. NoDL-84R007, August 1984. (NTIS No. AD A147105)
- Thomas, D. J. Gilbert, N. S., Grunsten, R. C., & Price, W. F. Follow-Up Cervical Spine X-Rays on Volunteers Undergoing Experimental Impact Acceleration. Presented at the Clinical Orthopedic Society Meeting, New Orleans, 14-16 October 1984.
- Frisch, G. D. Manikin Response Requirements for Safety Equipment Testing. Proceedings of the 37th Annual Conference on Engineering in Medicine and Biology, Los Angeles, CA, 15-19 September 1984.
- Thomas, D. J., & Jessop, M. E Experimental Head and Neck Injuries from Inertial Forces. Proceedings of the 37th Annual Conference on Engineering in Medicine and Biology, Los Angeles, CA, 15-19 September 1984, 291.

- Bowman, B. M., Schneider, L. W., Lustick, L. S.,
  Anderson, W. R., & Thomas, D. J. Simulation Analysis of
  Head and Neck Dynamic Response. Proceedings of the 28th
  Stapp Car Crash Conference, Chicago, IL, 6-7 November,
  1984.
- 3.311 Matson, D. L. Visual Event-Related Potentials and Visual Field Dependence. Presented at the 24th Annual Meeting of the Society for Psychophysiological Research, Milwaukee, WI, October 1984. Abstract in Psychophysiology, 1984, 21, 587.
- 3.311.1 Matson, D. L. Impact Acceleration and the Effects of Heart Rate of Short-Latency Somatosensory Evoked Potentials. Presented at the 25th Annual Meeting of the Society for Psychophysiological Research, October 1985. Abstract in Psychophysiology, 1985, 22, 603.
- 3.312 Irons, R. C., & Rose, P. V. System Documentation for Software/Hardware for Performance Evaluation:
  Engineering Development. Computer Documentation, September 1984.
- 3.312.1 Irons, R. C., & Rose, P. V. Naval Biodynamics Laboratory Computerized Cognitive Testing. Neurobehaviorial Toxicology and Teratology, 1985, 7, 395-397.
- 3.313 Francis, D. A. General Plot Subroutine Package for the Hewlett Packard 54514 C Fourier Analyzer. Research Report No. NBDL-84R008, December 1984. (NTIS No. AD A157127)
- 3.314 Guignard, J. C., & Bittner, A. C., Jr. Performance Effects of Vibration. Invited presentation to the Acoustical Society of America Special Session on Bioresponse to Vibration: Effects and Models, Austin, TX. April 1985. (Withdrawn)
- 3.315 Dunlap, W. P., Bittner, A. C., Jr., Jones, M. B., & Kennedy, R. S. Factor Analysis of Composite Scores from the Armed Services Vocational Aptitude Battery (ASVAB).

  Presented at the 28th Annual Military Testing Association Conference, Mystic, CT, November 1986.
- 3.316 Dunlap, W. P., Silver, N. C., & Hunter, R. E. Averaged Cross-Correlations: A Methodology for Validity

  Assessment in Small Samples (Final Report on NBDL Contract No. NO0205-84-M-7589). New Orleans, LA: Tulane University, January, 1985.

- Dunlap, W. P., Silver, N. C., Hunter, R. E., & Bittner A. C., Jr. Averaged Cross-Correlations: a Method for Validity Assessment in Small Samples. Paper presented at the the Mid-Central Ergonmics/Human Factors Conference, Purdue University, West Lafayette, ID, June 1985.
  Also, in Eberts, R. E., & Eberts, C. G. (Eds.). Trends in Ergonomics/Human Factors II, Amsterdam: Elsevier North-Holland, 1985, 13-21.
- 3.318 Pollack, J. G. Motion Comparison Between a SWATH and a Monohull. Research Report No. NBDL-85R001, February 1985. (NTIS No. AD A164882)
- 3.319 Weiss, M. S. <u>Testing Correlated "EEG-Like" Data for Normality Using a Modified Kolmogorov-Smirnov Statistic.</u>

  IEEE Transactions on Biomedical Engineering, 1986,
  BME-33, 114-1120.
- 3.320 Rittner, A. C., Jr., & Guignard, J. C. Motion Sickness Evaluations in an At-Sea Environment: Seakeeping Trials of a USCG Cutter (WMEC 901). Research Report No. NBDL-86R002, in preparation.
- 3.321 Bittner, A. C., Jr., & Damos. D. L. <u>Demonstration of a Statistical Method for Isolating Timesharing Components</u>.

  Research Report No. NBDL-86R001, January 1986. (NTIS No. AD A165417)
- 3.322 Wilson, K. P. & Pollack, J. G. Effect of Vertical Heave Motion on Cognitive Performance. Proceedings of the Tenth Psychology in the DoD Symposium (ASAFA-TR-86-1). USAF Academy, Colorado Springs, CO, April 1986, 344-348.
- 3.323 Matson, D. L. Impact Injury and Evoked Potentials: I. Somatosensory Evoked Potentials in Humans. Research Report No. NBDL-86R003, January 1986. (NTIS No. AD A )
- 3.324 Wamsley, B. W., Pollack, J. G., & Wilson, K. P. Motion Sickness-Related Hyperventilation with Tetany in a Simulator: A Case Study. Presented at the 87th Annual Scientific Meeting of the Aerospace Medical Association, Nashville, TN, April 1986 (Abstract No. 129, p A22 in Proceedings). Also, Research Report No. NBDL-86R004. Submitted to Aviation, Space and Environmental Medicine.
- 3.325 Biersner, R. J. & von Gierke, H. E. DOD Biomechanical Research, Research. Letter Report No. NBDL-86R005, May 1986. (NTIS No. AD A168199)

- 3.326 Weiss, M. S. & Lustick, L. S. <u>Guidelines for Safe Human Experimental Exposure to Impact Acceleration</u>. Research Report No. NBDL-86R006, April 1986. (NTIS No. AD A169347)
- 3.327 Trautman, E., Pollack, J. G., & Gilreath, P. Task and Environmental Considerations for Laboratory Simulation of the Dead Reckoning Tracer Crew Station. Research Report No. NPRDC-F50-TN86-2, Navy Personnel Research and Development Center, San Diego, CA, February 1986.
- 3.328 May, J. G., Fisher, W. D., Elder, S. T., & Kubitz, K. A.

  A Comparison of Two Methods of Training Resistance to

  Visually-Induced Motion Sickness. Report on NBDL

  Contract No. N00205-84-M-2632, University of New Orleans,
  New Orleans, LA, 1985.
- 3.328.1 Dobie, T. G., May J. G., Fisher, W. D., Elder, S. T., & Kubitz, K. A. A Comparison of Two Methods of Training Resistance to Visually-Induced Motion Sickness.

  Presented at the Physiologic Adaptation of Man in Space: 7th International Academy of Astronautics Man in Space Symposium, Houston TX, February 1986. Also, Aviation, Space, and Environmental Medicine, in press.
- 3.329 Cullen, J. K., Jr., Rampp, R. D., May, J. G., & Dobie, T. G. Measures of Auditory Evoked Potentials During Optokinetic Stimulation. Presented at the Physiologic Adaptation of Man in Space: 7th International Academy of Astronautics Man in Space Symposium, Houston TX, February 1986. Also, Aviation, Space, and Environmental Medicine, in press.
- 3.330 Biersner, R. J. & Davis, P. O. Needed: Chemical Warfare Defense Doctrine. U.S. Naval Institute Proceedings, 1986, 112, 116-120.

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- 3.331 Matson, D. L. Evoked Potential Indices for Predicting Motion Sickness Susceptibility. Presented at the 26th Annual Meeting of the Society for Psychophysiological Research, Montreal, P. Q., Canada, October 1986. Abstract in Psychophysiology, 1986, 23, 450-451.
- 3.332 Wamsley, B. W., Bittner, A. C., Gilbert, N. S., & Lustick, L. S. <u>Dynamic Variable Temporary Injury Correlation for Human and Neck Impact Experiments</u>.

  Research Report No. 86R007 (in preparation).
- 3.333 Seemann, M. R., Muzzy, W. H., & Lustick, L. S.

  Comparison of Hybrid III Head and Neck Dynamic Response
  (Paper No. 861892). Thirtieth Annual Stapp Car Crash
  Conference Proceedings. Warrendale, PA: Society of
  Automotive Engineers, 291-311.

- 3.334 Trautman, E., Pollack, J. G., & Webb, S. C. Task and Environmental Considerations for Ship Motion Simmulation in the FFG-7 (HFOSL Technical Note 71086-13). Human Factors and Organizational Systems Laboratory, Navy Personnel Research and Development Center, San Diego, CA, June 1986. (Distribution to Authorized U.S. Government Agencies Only)
- 3.335 Wilson, K.P., Pollack, J. G., & Wallick, M. T. The Effects of Ship Motion on Human Performance: An Update. Proceedings of the ANSE Symposium 1986: Destroyer, Cruiser & Frigate Technology. Alexandria, VA: American Society of Naval Engineers, 347-395.
- 3.336 Muzzy, W. H., III, Seemann, M. J., Willems, G. C., Lustick, L. S., & Bittner, A. C., Jr. The Effects of Mass Distribution Parameters on Head/Neck Dynamic Response (Paper No. 861886). Thirtieth Annual Stapp Car Crash Conference Proceedings. Warrendale, PA: Society of Automotive Engineers, 167-183.
- 3.337
  Mauro, C. A., Burns, K. C., & Smith, D. E. Final Report on Statistical Impact Acceleration Models Based on -G<sub>x</sub>

  Acceleration Data (Technical Report No. 126-1, ONR Contract No. NO0014-85-C-0846). State College, PA:
  Desmatics, October 1986.
- 3.338 Harbeson, M. M. <u>Bibliogarphy of NBDL Publications</u>.

  Research Report No. 87R001, January 1987. (NTIS No. AD A ).
- 3.339 Biersner, R. J. Emotional and Physiological Effects of Nitrous Oxide and Hyperbaric Air Narcosis. Aviation, Space, and Environmental Medicine, 1987, 58, 34-38.